

Claims:

1. A digital spirit level comprising a housing with a leveling surface for placing on a surface, an inclination measurement module for measuring an inclination measurement of a surface, and a display driver for displaying inclination measurements of vertical surfaces upright relative to 0° horizontal for facing a user holding the digital spirit level against a vertical surface for facilitating straight on reading of its inclination measurement.
2. The level according to Claim 1 wherein said display driver displays inclination measurements of vertical surfaces relative to 0° vertical instead of 0° horizontal for upright display relative to 0° horizontal.
3. The level according to Claim 2 wherein said display driver drives a display screen including a pair of orthogonal seven segment arrays for displaying inclination measurements of surfaces where a first seven segment array of said pair of orthogonal seven segment arrays displays inclination measurements of surfaces perpendicular to said leveling surface and a second seven segment array of said pair of orthogonal seven segment arrays displays inclination measurements of surfaces parallel to said leveling surface.

4. The level according to Claim 3 and further comprising an attitude detection module for detecting the attitude of the digital spirit level relative to 0° horizontal for providing an input signal for determining whether to display an inclination measurement of a surface whose inclination is close to a changeover
5 inclination on either said first seven segment array or said second seven segment array.

5. The level according to Claim 2 wherein said display driver drives a graphic display screen for displaying inclination measurements upright relative to
10 0° horizontal irrespective of the attitude of said leveling surface thereto.

6. The level according to Claim 1 wherein said display driver drives a display screen including a pair of orthogonal seven segment arrays for displaying inclination measurements of surfaces where a first seven segment array of said
15 pair of orthogonal seven segment arrays displays inclination measurements of surfaces perpendicular to said leveling surface and a second seven segment array of said pair of orthogonal seven segment arrays displays inclination measurements of surfaces parallel to said leveling surface.

20 7. The level according to Claim 6 and further comprising an attitude detection module for detecting the attitude of the digital spirit level relative to 0° horizontal for providing an input signal for determining whether to display an

inclination measurement of a surface whose inclination is close to a changeover inclination on either said first seven segment array or said second seven segment array.

- 5 8. The level according to Claim 1 wherein said display driver drives a graphic display screen for displaying inclination measurements upright relative to 0° horizontal irrespective of the attitude of said leveling surface thereto.